

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1-14 (cancelled)

Claim 15 (currently amended): A purified recombinant thermostable DNA polymerase comprising the amino acid sequence set forth in Figure 3 (SEQ ID NO: 3) (~~SEQ ID No. 3~~).

Claims 16-20 (cancelled)

Claim 21 (withdrawn, currently amended): A method of sequencing DNA comprising the step of generating chain terminated fragments from the DNA template to be sequenced with the DNA polymerase of ~~Claim 16~~ Claim 15 in the presence of at least one chain terminating agent and one or more nucleotide triphosphates, and determining the sequence of said DNA from the sizes of said fragments.

Claim 22 (withdrawn, currently amended): ~~A~~The method according to Claim 21, wherein the chain terminating agent comprises a labeled nucleic acid terminator having a net positive or a net negative charge.

Claim 23 (withdrawn, currently amended): A method for synthesizing a fluorescently labeled polynucleotide, said method comprising the step of mixing a DNA polymerase according to ~~Claim 16~~Claim 15 with a primed template.

Claim 24 (withdrawn, currently amended): ~~A~~The method according to Claim 23, wherein the primed template is a primed template in a chain termination sequencing reaction.

Claim 25 (withdrawn, currently amended): ~~A~~The method according to claim 23, wherein the primed template is a primed template in a polymerase chain reaction.

Claim 26 (currently amended): A kit for fluorescently labeling a polynucleotide, the kit comprising a DNA polymerase according to ~~Claim 16~~Claim 15 and a fluorescently labeled nucleotide.

Claim 27 (currently amended): ~~A~~The kit according to Claim 26, wherein the fluorescently labeled nucleotide comprises a nucleic acid terminator having a net negative or a net positive charge.

Claim 28 (currently amended): A kit for sequencing DNA comprising the DNA polymerase of ~~Claim 16~~ Claim 15.